

Name\_\_\_\_\_

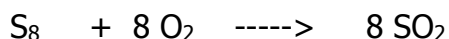
Period\_\_\_\_\_ Date\_\_\_\_\_

**SHOW all work. No work no score!!!!**

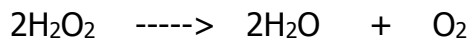
- 1) How many liters of carbon dioxide are produced when 500 liters of carbon monoxide gas is oxidized?



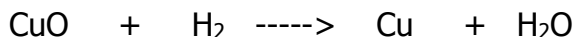
- 2) How many liters of oxygen are needed to react with sulfur to produce 7000 liters of sulfur dioxide?



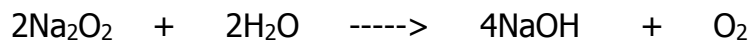
- 3) When 70 grams of hydrogen peroxide are decomposed by light, how many liters of oxygen are released?



- 4) In the reduction of 100.0 grams of copper II oxide, how many liters of hydrogen are needed?



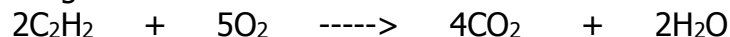
- 5) How many grams of dihydrogen monoxide must react with sodium peroxide to produce 75.0 grams of sodium hydroxide?



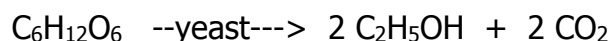
- 6) In the Haber process for making ammonia, how many liters of ammonia gas are produced when 4600 liters of nitrogen gas is used?



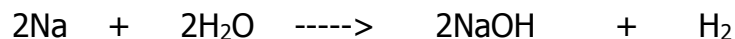
- 7) How many liters of oxygen are required to completely burn 800 liters of acetylene gas?



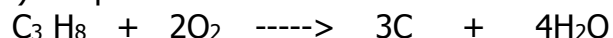
- 8) In the fermentation process, glucose can be converted to ethanol. How many milliliters of ethanol will be produced if 88000 gm of glucose are fermented?  
(HINT: 1. find the number of grams of ethanol 2. Then use 0.8 g/mL to convert grams to mL.)



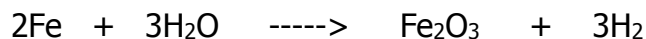
- 9) If 25 liters of hydrogen are produced by the reaction of sodium metal and water, how many grams of sodium hydroxide can be produced?



- 10) During the incomplete combustion of 7000 L of propane, how many grams of soot (C) are produced?



- 11) Calculate the mass of iron reacting with steam to produce 7500 grams of rust ( $\text{Fe}_2\text{O}_3$ )



- 12) If 500 grams of calcium carbide react with water, what volume of acetylene gas is produced?

